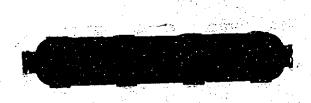
Laste 22 and secolar





COUNTY Apache		AREA 15 mi SW Ro Dineh bi Key	ed Rock LEASE NO.	Nav 14-20-0603-8811
VELL NAME HUMBLE #1	NAVAJO-87			
LOCATION SE NE	SEC 23	TWP 36N RANG	E 29E FOOTAGE 1830	FNL 880 FEL
			STATUS P&A	TOTAL 16-69 DEPTH 5505'
ELEV 8960 GR 8980 CONTRACTOR Loffland			COMP. DATE 10-	16-69 DEPTH 3303 54731
CASING SIZE DEPTH	CEMENT	LINER SIZE & I	DRILLED BY	ROTARY ×
9 5/8 1350	1100	Sks NA	DRILLED BY	CABLE TOOL
4 1/2 5505	325	SKS	PRODUCTIVE	RESERVOIR
			INITIAL PRO	DUCTION Abd. 10-16-69
		SOURCE		
FORMATION TOPS	DEPTHS	L.L. E.L.	REMARKS	
Coconino	23521	X		
Cutler	3053			
Hermosa	-4195' 4396'			
Ismay Desert Creek	4503			
Akah	4559			
Mississippian	4909'			
Devonian	5076' 5212'			
Aneth	5347'			
Pre-Cambrian	5464'			
ELECTRIC LOGS	PER	RFORATED INTERVALS	PROD. INTERVALS	
Comp. Formation	Density			SAMPLE DESCRP.
IE, Sonic-GR				SAMPLE NO. 1438* CORE ANALYSIS x
				DSTs *Tuc son 2091
			 	*lucson 2071
DEMARKS	`\			APP. TO PLUG
REMARKS		<u></u>		
				PLUGGING REP.
				COMP. REPORT X
WATER WELL ACCEPTED	BY			
BOND CO. America	n Insuranc	e Company	BOND NO	5-10-11-58
BOND AMT. \$ 25,000	· .	CANCELLED 3-16		REPORT 3-22-67
FILING RECEIPT 949				PLAT BOOKx
API NO. 02-001-200				NE/4
	6/			FIDENTIAL
T DINITE HOUSEN		(ove	r) Release	Date / 2 - / 3 - 67

6

3.,

DRILL STEM TEST

			DKILL 3	TEM TEST
NO.	FROM	то	RESULTS	
1	5225	5505'	Misrun	
2	5195	5505'	Misrun	
3	5231	5505'	Shut in 1 hr	, opened to flow 2 hrs and 40 min. final shut in
			5 hrs and 20	min. Flowed gas at stablilized rate of 605 MCFGPD.
			нн 2409-2396	. FP 242-87, SIP 1597-960. Gas would not burn.
			CORE	RECORD
NO.	FROM	то	RECOVERY	REMARKS
1	5232	5245	12'	Sandstone, buff, very hard, dense, very fine
				grained, calcareous and silica cement, fused.
2	5268	5288	19½'	12' as above 8' shale, red & green, dolomitic
3	5288	5344		Shale, red & green, dolomitic, sandy
4	5344	5351	4'	Shale As above, 1' domomite, cobles and 2' domomit

REMEDIAL HISTORY

DATE STARTED - COMPLETED	WORK PERFORMED	NEW PERFORATIONS
	ADDITIONAL INFORMATION	

_

1									<u> </u>						
1				WI	ELL CO	LETION		RECOMPL			LYND M	ÆLL i	LOG		
\ _N	⁷ ~~~ [<u> </u>	Work-	_				Same		Differ	ent 📑	211	П	Gas	🕅 Dry 🔲
₩	Vell	<u>. Lx</u>	Over		Deepen		ack DESCRI	Reservice IPTION OF		Reser		Oll		UES L	<u> </u>
01	perator Hum	hle (OIL 8	⊾ Ref:	ining	Company			Address P. O.	Box 1	.20, Den	ver,	Colo	rado (30201
	ederal.	State o	r India	n Lease	Number o	or name of les		lee lease	Well Num	her	Field & Re		7		
ì—	1-20- Location					Tract 87			Cour						
	SE			FNL lock & St		FEL) c	of Se	c. 23		Apa	ache				
<u> </u>	Sec	23		-29E	- G&SE	<u></u>				1 721			 -	Elevation	n of casing
u	Date sp	udded 28-67			5-23-6	al depth reac! 57	1	Date comple produce Temp. SI	_	l (E	evation F RKB R7 8980 K	or G B	r.) feet	nd figur 8960	re foot
7	rotal de	epth		1	P.B.T.D. 54731			Single, dual			?	If this furnis	ь вераг	al or tri	ple completion, t for each com-
F	Produci	ng inter	rval (S) for this	s complet	ion	<u> </u>		1		i (interval)		Cable t		l (interval)
No	O CON	iplet	ion directi	atten	ipt mad rilledij W	de pendi:	ng ge	ey made?	1	-5505 of dire	ctional surve	у	Date fi		
- 1	No					- check logs fi				-	<u> </u>	<u> </u> 	Date fi		
					Sonic					_	<u> </u>		June	e, 196	>7
F	O==1==	(2000	+ 611 -	tringe o	et in we	l—conductor,	surfac		RECORD	ig, etc.)	-				
		rpose	L ALL B		ole drilled				(lb./ft.)		opth set	St	acks cen	ient	Amt. pulled
	Surf	ace			3/4"		/8"	32 //			350' 305'	$-\frac{1}{2}$	100 325		None None
-	Prod	uctio	<u> </u>	8_	3/4"	_ 4-1/	/2"	- 9.	5#	2		 _	<u></u>		
				ING RE							LINER RE	CORD		cement	Screen (ft.)
	size None		n. De	opth set.	. st. P	acker set at	ft. Six	ie In		i ft.	Bottom	ft.		·	
 				PERF	ORATION	record			_				CEMEN		EZE RECORD
		er per		Size &		* **** *******************************	th Inte	. :	.	& kind	of material	used	<u> </u>	Depti	h Interval
F	No	comp	<u>leti</u>	on at	tempt;	made per	nding	g gas mai	rket.				- - ; - ,		
<u> </u> -					- -			INITIAL !	PRODUCTIO	N					
		of first	produ ST C		1	Producing me	athod (indicate if flo	owing, gas	lift or I	oumping—if	pumpii	ng, show	7 8150 GC	type of pump:)
- 1		3 - T			1 050	ce size	Oll pro	d. during tes	t l' Gas pro	d. durl:	g test W	ater p	rod. dur		Oil gravity
-	Date o	of test		tested	Choi	1 2120	·	bbls	i	t .	MCF		1	bbis.	API (Co
 -			Hrs		g pressure	Calited	rate of	Pro-Lon	. \	Gas		- 1	ater		Gas—oil ratio
	Tubin	of test	Hra	Casing	g :pressure		rate of per 24	Pro- Oil	i	Gas	MCF	- 1	ater	bbls.	<u></u>
- - - -	Tubin	of test	Hra	Casing	g :pressure	Cal'ted duction	rate of per 24 r fuel o	Pro- Oil hrs. or sold):	. \	Gas	мс	r 			<u></u>
3	Tubin Dispos	g press	Hrs.	Casing state wi	hether ve	Cal'ted duction	rate of per 24	Pro- Oil ins. or sold):	bbla	<u> </u>		r 			Gas—oil ratio
	Tubin Dispos	g press	Hrs. sure of gas (Casing state with the under	hether ver	Cal'ted duction	rate of per 24 r fuel o	Pro- Oil thrs. or sold):	bbls.	e	MCI Dist.	Supt	any to m	bbls.	Gas—oli ratio
	Tubin Dispos	g press	Hrs. sure of gas (casing state with the under Ref. Ref.	hether ver	Cal'ted duction	rate of per 24 r fuel o	Pro- Oil thrs. or sold):	bbls.	e	MCI Dist.	Supt	any to many to	bbls.	Gas—oil ratio
	Tubin Dispos CERT	g press	Hrs. sure of gas (Casing state with the under	hether ver	Cal'ted duction	rate of per 24 r fuel o	Pro- Oil hrs. or sold):	bbls. hat I am the and that I sects stated the	e	Dist.	Supt	any to m	bbls.	Gas—oil ratio
	Tubin Dispos CERT	g press g press gition o	Hrs. sure of gas (casing state with the under Ref. Ref.	hether ver	Cal'ted duction	rate of per 24 r fuel o	Pro- Oil hrs. or sold):	bbls. hat I am the and that I sects stated the	am authonerein ar	Dist.	Supt	any to many to	bbls.	Gas—oil ratio
	Tubin Dispos CERT	g press g press gition o	Hrs. sure of gas (casing state with the under Ref. Ref.	hether ver	Cal'ted duction	rate of per 24 r fuel o	Pro- Oil hrs. or sold):	bbls. hat I am the and that I sects stated the	m authorierein ar	Dist. prized by saide true, correct J Roy	Supt	any to manage of the complete cough	bbls. ake this a to the be	Gas—oil ratio of the report; and that this st of my knowledge
	Tubin Dispos CERT	g press g press gition o	Hrs. sure of gas (casing state with the under Ref. Ref.	hether ver	Cal'ted duction	rate of per 24 r fuel o	Pro- Oil hrs. or sold):	bbls. hat I am the and that I sects stated the	em authorierein ar mature	Dist. Dist. Prized by said e true, correct J Roy ST. & GAS Co	Supt. compact and of the compact	eny to more omplete cough	bbls. ske this z to the be	report; and that this st of my knowledge

(Complete Reverse Side)

 γ

	Top	Bottom .		Descriptio	•מ	401
	23521	3053'				
Coconino Cutler	3053'	4195'				
Hermosa Hermosa	4195	43961				
Ismay	43961	45031				
Desert Creek	4503	45591				
Akah	4559	4909		}₹ . : · · · ·	• • •	
Mississippian	4909	50761				
Devonian	50761	52121			,	•
McCracken	52121	53471				
Aneth	5347	54641				
n 0. 1	ch6h :	5505 1777	·		•	
The shove tons	vary slightly	from those	reported on repo	rt of 6-2-6	7 which wer	e prelimina
picks from field	d prints.]	<u> </u>			
of 605 not bu	MCFGPD. HH	2409-2396. s of gas she ed 12'. Sa	rinutes. Flowed g FP 242-87, SIP 1 ows helium content nustone, buff, ver silica cement, fu	.597-950. (. of 5.73%. ry hard, den	as would	·
dolom Core #3 - 5288- Core #4 - 5344-	itic, sandy.	e red & gr	een, dolomitic, se	andy.		
dolom Core #3 - 5288- Core #4 - 5344- sligh	itic, sandy. 5344'. Shal 51'. 4' sha	e red & gr	een. dolomitic. se	andy.		inori Torit
dolom Core #3 - 5288- Core #4 - 5344- sligh	itic, sandy. 5344'. Shal 51'. 4' sha	e red & gr	een. dolomitic. se	andy.		trinti Tynir
dolom Core #3 - 5288- Core #4 - 5344- sligh	itic, sandy. 5344'. Shal 51'. 4' sha	e red & gr	een. dolomitic. se	andy.		silverin Stanti
dolom Core #3 - 5288- Core #4 - 5344- sligh	itic, sandy. 5344'. Shal 51'. 4' sha	e red & gr	een. dolomitic. se	andy.		
dolom Core #3 - 5288- Core #4 - 5344- sligh	itic, sandy. 5344'. Shal 51'. 4' sha	e red & gr	een. dolomitic. se	andy.		TONE TONE
dolom Core #3 - 5288- Core #4 - 5344- sligh	itic, sandy. 5344'. Shal 51'. 4' sha	e red & gr	een. dolomitic. se	andy.		trivi Tyvir
dolom Core #3 - 5288- Core #4 - 5344- sligh	itic, sandy. 5344'. Shal 51'. 4' sha	e red & gr	een. dolomitic. se	andy.		
dolom Core #3 - 5288- Core #4 - 5344- sligh	itic, sandy. 5344'. Shal 51'. 4' sha	e red & gr	een. dolomitic. se	andy.		
dolom Core #3 - 5288- Core #4 - 5344- sligh	itic, sandy. 5344'. Shal 51'. 4' sha	e red & gr	een. dolomitic. se	andy.	dolomite,	
dolom Core #3 - 5288- Core #4 - 5344- sligh	itic, sandy. 5344'. Shal 51'. 4' sha	e red & gr	een. dolomitic. se	andy.		
dolom Core #3 - 5288- Core #4 - 5344- sligh	itic, sandy. 5344'. Shal 51'. 4' sha tly sandy.	e, red & gr le as above	een. dolomitic. se	andy.	dolomite,	
dolom Core #3 - 5288- Core #4 - 5344- sligh	itic, sandy. 5344'. Shal 51'. 4' sha	e, red & gr le as above	een. dolomitic. se	andy.	dolomite,	
dolom Core #3 - 5288- Core #4 - 5344- sligh	itic, sandy. 5344'. Shal 51'. 4' sha tly sandy.	e, red & gr le as above	een. dolomitic. se	andy.	dolomite,	
dolom Core #3 - 5288- Core #4 - 5344- sligh	itic, sandy. 5344'. Shal 51'. 4' sha tly sandy.	e, red & gr le as above	een. dolomitic. se	andy.	dolomite,	
dolom Core #3 - 5288- Core #4 - 5344- sligh	itic, sandy. 5344'. Shal 51'. 4' sha tly sandy.	e, red & gr le as above	een. dolomitic. se	andy.	dolomite,	
dolom Core #3 - 5288- Core #4 - 5344- sligh	itic, sandy. 5344'. Shal 51'. 4' sha tily sandy.	e, red & gr le as above	een. dolomitic. se	andy.	dolomite,	
dolom Core #3 - 5288- Core #4 - 5344- sligh	itic, sandy. 5344'. Shal 51'. 4' sha tily sandy.	e, red & gr le as above	een, dolomitic, sa, l' dolomite, col	andy.	dolomite,	
dolom Core #3 - 5288- Core #4 - 5344- sligh	itic, sandy. 5344'. Shal 51'. 4' sha tily sandy.	e, red & gr le as above	een, dolomitic, sa, l' dolomite, col	andy. oles and 2'	dolomite,	
dolom Core #3 - 5288- Core #4 - 5344- sligh	itic, sandy. 5344'. Shal 51'. 4' sha tly sandy.	e, red & gr le as above	een, dolomitic, sa, l' dolomite, col	andy. oles and 2'	dolomite,	
dolom Core #3 - 5288- Core #4 - 5344- sligh	itic, sandy. 5344'. Shal 51'. 4' sha tly sandy.	e, red & gr le as above	een, dolomitic, sa, l' dolomite, col	andy. oles and 2'	dolomite,	

^{*} Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Oil & Gas Conservation Commission not later than thirty days after project completion.

Farm No. 4

· · · · · · · · · · · · · · · · · · ·				PLUGGING	RECORD				
Operator					Address		A : : : :		
	l & Refining r Indian Lease Num		<u></u>	Well			, Colorado 80201		
14-20-0603	i8811 - Nava	jo Tract	. 87	1	1	bi Keyah			
Location of We	11 O'FNL & 880	्राज्य १	ነቶ ይ	ection 23-36	NT CODE COOK	Sec-Twp-Rge or B	Amacha		
Application to d	rill this well was file ble Oil & Re	ed	Has	this well ever	Character of well	at completion (in	itial production) Temp _{fry} Abd.		
	jo Tract 87	TIME	No	- 1			orated. Non Commercial		
Date plugged:			Tota	l depth	Amount well pro Oil (bbls/day	ducing when plugg	ged: CF/day) Water (bbls/day)		
10-16-69		,		505 '	None;	Non	e None		
Name of each for taining oil or ga which formation bore at time of p	s. Indicate 1 open to well-	Fluid conte	ent of	each formation	Depth interval of	each formation	Size, kind & depth of plugs used Indicate zones squeeze cemented, giving amount cement		
Casing was	never perfo	rated fo	or t	esting.			See attached copy of		
-		<u> </u>		· · · · · · · · · · · · · · · · · · ·			U.S.B.S Report for		
							complete plugging		
			·				summary.		
		<u> </u>							
				CASING					
Size pipe	Put in well (ft.)	Pulled out (ft.) Left in well (Give depth and method of parting casing (shot, ripped, etc.)		Packers and shoes		
4-1/2"	5505 '	None		55051	_	-			
9-5/8"	1350'	None		1350'		<u>-</u>			
		<u> </u>							
Was well fil	led with mud-laden Yes	finid, accord	ing to	regulations?	Indicate deepest f	ermation containir	ng fresh water.		
	NAMES AND	ADDRESSES	OF A	ADJACENT LEASE	OPERATORS OR	OWNERS OF TH	E SURFACE		
Name		Add	ress			Direction	on from this well:		
Kerr-McGee	Oil Company	z Ok	laho	ma City, Ok	lahoma_	Eas	t		
No other a	djacent oper	rators.							
	be of Indian	*							
In addition to or plugging operations in the letter from surging which mig	other information re- tions to base of fre- face owner authori- ht be required.	equired on the sh water san zing complet	nis for id, per ion of	m, if this well was forated interval to this well as a wa	plugged back for fresh water sand ter well and agree	use as a fresh wa d. name and add zing to assume ful	ter well, give all pertinent details of ress of surface owner, and attach il liability for any subsequent plug-		
Use reverse side	e for additional deta								
030 1010100 3101					······································				
CERTIFICATE	: I, the undersigned	under the	penalt	y of perjury, state	that I am the	Dist. Supt	•of the		
	& Refining			(company) and	that I am authoriz	ed by said compar	y to make this report; and that this		
report was breb	area under my supe	rvision and d	irecuc	m and that the facts	stated therein are	true, correct and c	omplete to the best of my knowledge.		
10-24-	-69					200	and the same of th		
Date			1		Mercure	J. Roy Dor	rough /		
		That or	TILL)	UVEI E			F ARIZONA		
1		III ST	- 2 T-	7 1989	OIL		VATION COMMISSION		
		Total Conference	日本。 内でア	U & G S			ing Record One Copy		
Permit No	401			NORTH THE PARTY OF	Form No. 10		••		
1		— /'ヹン		\\\\\	1 . 41 H 140. W				

42

G.

O

3

Township |

APCCATION TO ABANDON AND PLUE

FIELD Dineh bi Keyah	
OPERATOR Humble Oil & Refining Company Federal. State. or Indian Lease Number or Lessor's Name if Fee Lease 14-20-0603-8811 - Navaj	DDRESS P. O. Box 120, Denver, Colorado 80201
SURVEY 36N-29E G&SEM SECTION 23	COUNTY_Apache
LOCATION SE NE (1830' FNL & 880' FEL) of Sect	ion 23
(On, Gas of Dry nois)	TOTAL DEPTH5505' - PRTD 5473'
ALLOWABLE (If Assigned)	(Rhie)
mio. The property of the prope	(Bbls.) WATER(Bbls.)
GAS	
PRODUCING HORIZON None	AY: T -0 Y.0
1. COMPLETE CASING RECORD	- RECEIVED
Surface - 9-5/8" 32# set at 1350'.	3"1 OCT 1969 (5)
Production - $4\frac{1}{2}$ " 9.5# set at 5505'.	CONS COMM. A
	mile!
proposed procedure above.	requirements of Rule 202? If not, outline
DATE COMMENCING OPERATIONS Immediately after	P. O. Por UTU Formington N.M.
NAME OF PERSON DOING WORK Mr. H. L. Farris	ADDRESS P. O. Box "I", Farmington, N.M. 87401
	oy Dorrough
Dist.	_Sapt.
P. 0	. Box 120, Denver, Colorado 80201
Address 9-30	-69
Date	
Date Approved 1D-6-109	STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Application to Abandon and Plug
STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION	File Two Copies
John Vannisler	Form No. 9

_

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

1	Form approved. Budget Bureau No. 42-R356.5.
AND OF	FICE UMBER 14-20-0603-8811
LEASE N	UMBER 14-20-0003-0011
Unit	

16-25766-9 u. s. Government Printing Office

LESSEE'S MONTHLY REPORT OF OPERATIONS

State	Ari	zona	·	Co	unty	Apache.	Fie	ldDir	neh bi Ke	yah
Th_{θ}	folk	ານກຳກຸດ	is a	correc	t report of	operati	ons and pro	duction (i	ncluding d	rilling and producing
wells) fo	or the	mon	th of		Octob	e r	, <i>196</i> 9.,			O. D. Staday - Carron
Agent's	addr	ess P.	Q.	Box 1	20			npany10	mble that	& Refining Company
		De	nyer	, Col	orado 502	Ω <u>1</u>	Sig.	nediii	TM at S	hunt
Phone_		53	4-12	<u> </u>				1	BARRELS OF	BEMARKS
SEC. AND MOT M	Twr.	RANGE	WELL No.	Ватя Расвуско	BARRESS OF O	L GRAVITY	Cu. Fr. os Gas (In thousands)	GALLONS OF GASOLINE RECOVERED	WATER (II none, so state)	(If drilling, depth; if shur down, cause: date and result of test for gasoline content of gas)
										70 mm
AVAJO TT	ACT	87 -	ARI	ZONA F	ERMIT NO.	401				
ec. 23 E NE	36 n	29E	1	0						Well plugged and abandoned 10-16-69
4		1								
			ļ]	TRAL R	PORT			
				i I] !	!			
									1	
				ļ		1			İ	
		İ								
									į	
					•					
							ļ			
								ļ		
										0.1.0
				į]		A	4
										TECEIVED (
		-				1			S7	3 1969
									15 CO	NS. COMM.
									13	T. COMM.
ce: 2	- A1	ner	a Oi	l & Ge	sor - Ka	ration (Commission ibe			DETITE
	-									M cu. ft. of gas solo
						of goodin	a during the mo	unth (Write	e "no" where	applicable.)
N		-Danari	- on ti	112 105111	is reniiirea ini	encu cale	ndar month, reg z month, unless	WITH COO OF AIR	C SOMEONS OF OR	

GPO 837-082

104

Form 9-329 (January 1950) Carrie

HUMBLE DIL & REFINING CO. PROPOSED PLUGGING PROCEDURE NAVANO TK 87, WELL NO 1 SE NE SEC 23-36N-29E DUNNE CO ARIZONA 513 % SURFACE HOLE & 1350 9 5/" 32" SURF CASING to 1350 Wy 1100 SACKS; CIRC CEMENT TO SURFACE. 8 1/4" HOLE TO TO 41/2"- 9.5" Cooms to To, could by 225 sacks PLUG No. 4: 25' cml Plug in TOP 42" CSG. PLUG. No.3: Dump 30 to 100 specks IN 4: 9 5/6" CSG, ANNULUS .. 2350 a) PERFORATE WITH 4 HOLES @ 2700 COCCALAD NOTE PARTY b) SET RETAINER AT 2600' C) SqUEEZE 100 SACKS THROUGH PERES 2600 D) DISPLACE 25 SACKS ON TOP OF RETRINER Z700° PLUL No. 2: 23 sacks From 4000 to 3700 Cont Top MC CROCKEN. 534า".. NOTE: "PROD CSG WAS NOT PERFORATED 4 STEEL PLATE WILL BE WELDED Across Top of 42" CASING AND CRISING PHNULLS. CASING SIDE OUTCETS WILL BE CAPPED WITH WELDED PLATES. STATE O & G CONS. COMM.

O

0

Form approved. Budget Bureau No. 42-R1424. DEPARTMENT OF THE INTERIOR (Other Instructions verse side) LICATE Form 9-331 (May 1983) 5. LEASE DESIGNATION AND BERIAL NO. 14-20-0603-8811 GEOLOGICAL SURVEY 6. IF INDIAN, ALLOTTEE OR TRIBE NAME SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals.) Navajo 7. UNIT AGREEMENT NAME OTHER Non Commercial - Temp. Abandoned METT CYR 8. FARM OR LEASE NAME 2. NAME OF OPERATOR Navajo Tract 87 Humble Oil & Refining Company 9. WELL NO. 3. ADDRESS OF OPERATOR 1 P. O. Box 120, Denver, Colorado 80201 LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)

At surface 10. FIELD AND POOL, OR WILDCAT Dineh bi Keyah 11. BEC., T., R., M., OR BLK. AND BURNEY OR AREA SE NE (1830' FNL & 880' FEL) of Section 23 Sec. 23-36N-29E - G&SRM 12. COUNTY OR PARISE | 13. STATE 15. ELEVATIONS (Show whether DF, RT, GR, etc.) 14. PERMIT NO. Arizona Apache 8980' KB Arizona #401 Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data 16. SUBSEQUENT REPORT OF: REPAIRING WELL WATER SHUT-OFF PULL OR ALTER CASING TEST WATTE SHUT-OFF ALTERING CASING FRACTURE TREATMENT MULTIPLE COMPLETE FRACTURE TREAT ABANDONMENT* SHOOTING OR ACIDIZING ABANDON" SHOOT OR ACIDIZE (Other) CHANGE PLANS REPAIR WELL (Norz: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) (Other) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) * Ran tubing to PBTD 5473'. Displaced water out of casing with mud. Placed cement plug (60 sx) 5473-4700'. Pulled tubing to 4000'. Placed 23 sx cement plug 4000-3700'. Pulled tubing completely out of hole. Ran in with Schlumberger gun and found top of cement at 3686'. Pulled gun up to 2700'. Shot 3 holes around casing. Ran tubing and $4\frac{1}{2}$ " permanent type cement retainer and set at 2600'. Squeezed in 100 sx cement through perforations. Maximum pressure 1500 psi, minimum pressure 250 psi. Pulled loose from retainer and put 25 sx cement plug on top of retainer. Pulled tubing. Left 1 joint in top of $4\frac{1}{2}$ casing. Filled $4\frac{1}{2}$ casing 31' to surface with cement. Pulled joint out. Pumped 110 sx cement through bradenhead between 42" and 9-5/8" surface casing. Maximum pressure 250#, 10-12-69. On 10-16-69 added 50 sx cement to annulus between $4\frac{1}{2}$ " and 9-5/8". Checked later - annulus standing full of Welded a steel plate across top of $4\frac{1}{2}$ " casing and casing annulus. Capped casing head side outlets with welded steel plates. Regulation dry hole marker welded onto steel plate. Job complete 10-16-69. Location is cleaned and ready for inspettion. cc: Mr. Perry K. Hurlbut - Minerals Supervisor - Navajo Tribe Mr. Cato Sells - Water Development - Navajo Tribe mg is true and correct 10-24-69 J. Roy Dorrough for Federal or State office use) TITLE APPROVED BY CONDITIONS OF APPROVAL, IF ANY: *See Instructions on Revers

.....

Ð

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

	Budget Bureau No. 42-R356.5.
LAND OFFIC	14-20-0603-8811
LEASE NUM	ER L4-ZU-UUU)-UULL

LESSEE'S MONTHLY REPORT OF OPERATIONS

wells) fo Agent's	or the addr	000	P. Q.	Box	tember 120 lorado 802		Co	mpany Hor	ble Oil	& Refining Company
Phone			534-1	251	107200 002		Sig Ad	ent's title I	list Sup	t.
SEC. AND M OF M	<u> </u>	RANGE	MRIT	DAYE		GRAVITY	Cu. Fr. or Gas (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause;
VAJO TR	CT 8	7 - 1	RIZO	ia pr	SETT BO. 4	<u>)1</u>				
e. 23 NE	3 6 ¥		1	0		And the state of t				Operations suspended 5-30-67. See Sundry Notice dated 6-2-67. No work has been do since this date.
11-	su	IDRY 1	OPIC	S APP	LICATION T	O PLUG	AND ABAN	DOM SURMI	PED 9-30	<u>69.</u>
								·		
i	ΑΡΡΙΚ	YAT. (or 6-:	20-67	RY ABANDON ALSO YO ATUS UNTIL	UR LET	TIER DATED	ETTER DAT 6-12-69	ED 6-15-6 GRANTING	APPROVAL TO
e: 2 - 1 -	Aris	cena erals	011 å Supe	Gas rvisc	Conservati - Navajo	on Con	mission B			Charles E
	 fore:	There	were	50		runs	or sales of oil	;	lo	M cu. ft. of gas sold

GPO 837-082

Form 9-329 (January 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved. Budget Rureau No. 42–R356.5.
LAND OFFICE 14-20-0603-8811
LEASE NUMBER 149 EUROVO TOOK 14
UNIT

18-25766-9 u. s. GOYERRHENT PRINTING OFFICE

LESSEE'S MONTHLY REPORT OF OPERATIONS

Phone _		1	Denve	r. Co	lorado	8020)1		Sign	ed	11	& Mefining Compan
BEC. AND MOT M	Twr.	RANGE	WELL No.	DATA PRODUCED	Barrels	OF OIL	GRAVITT	Co. Fr. or (In thous	r Gas unds)	GALLONS OF GASOLINE BECOVERED	BARRES OF WATER (If none, so state)	REMARKS (If drilling, depth; if abut down, cause date and result of test for gasoline content of gas)
AVAJO !	TRACT	87	- AR	ZOMA	PERMIT	NO.	401					
ec. 23 R NE	36 n	29E	P4	0								Operations suspen 5-30-67. See Su Notice dated 6-2. No work has been since this date.
NOTE:	APPR	dVAL.	br 6	120-6	ARY AE 7. AI TATUS	SO YO	UR LE	TER D	er le	TTER DAY 6-12-69	TED 6-15- GRANTING	67 AND YOUR APPROVAL TO
	- A		. O1	1 & C	La Con	serva	tion (commins	sion			

GPO 837-082

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R356.5.
LAND OFFICE 14-20-0603-8811
LEASE NUMBER
IINIT

LESSEE'S MONTHLY REPORT OF OPERATIONS

State	rizo	ene.		Co	unty Apac	he		Ficl	d Dineh	bi Keya	1
The	follo	wing	is a	correct	t report of c	operatio re	ons and	proc	luction (in	cluding d	rilling and producing
vells) fo	r the	mon	th of		100		, 19,		Flore	ble Oil	& Refining Company
lgent's	addre	88	P. U	. DOX							& Refining Company
					olorado 80	DVII.		Sign	1ed910	Hat. Adm	inistrative Supr.
Phone			534-	1251				Age	nt's title 🛎	7.500 1100	
SEC. AND MOVM	Twe.	RANGE	WELL No.	DATA PRODUCED	BARRELS OF OIL	GRAVITY	Cu. Fr. 01 (In thous:	Gas.	GALLONS OF GASOLINE RECOVERED	BARREIS OF WATER (U none, 50 state)	REMARKS (If drilling, depth; if shut down_cause; date and result of test for gasoline content of gas)
VAJO T	RACT	87									
c. 23	36₩	298	1							Š	TD 5505'.
					co	NF	DE	N	MAI	1	
										STATE COMM.	
:c: 2		rizos	is Of	1 & G	es Conserv	etion erais	Commiss Supr.,	sion Nav	ajo Trib	TIGI	T TE
N	OTE.		were.		runs or sales	run	s or sales	of oil;			M cu. ft. of gas s
	OTE	Repor		in form	runs or sales of its required for the state of the s	ach cale	ndar mont	h. reg	ardless of the	e status or oj	Mistinis, with most on me

:

011 & Gas Conservation Commission	1624 West Adams - Suite 202	
Humble Oil & Refining Company	P. O. Box 120, Denver, Colo	rado 80201
Gas Analysis - Navajo Tract 87 #1		6-27-67
Attached find Bureau of Mines analy	sis for the above well. This s	hould be used in lie
of the one furnished with other dat	a on 6-26-67 which was tabulate	d from phone
information.		
Intornacion.		
SIGNATURE (
M. D. Smith		
		Burne
		1835年19
	4	ENE 28
+ 10/		OK S

O

	IN THE OTRIFE	O.E. AFFERSON	IN TRIE ATE	Form approved. Budget Bureau N	a 49. P1494
Form 9-331 (May 1963)	U(TED STATES DEPARTMENT OF THE I	NTERIOR COther	I. commenter D PO	Budget Bureau No	SERIAL NO.
	GEOLOGICAL SUR		,	14-20-0603-8811	
				6. IF INDIAN, ALLOTTEE OB	TRIBE NAME
SU	INDRY NOTICES AND REPO	ORTS ON WELL	.5	. Nava jo	
(Do not use t	his form for proposals to drill or to deepen Use "APPLICATION FOR PERMIT—"	or plug back to a uluel for such proposals.)	ent reservoir	ti	
1.		77	The same	7. UNIT AGREEMENT NAME	
OIL GAS WELL WEL	L OTHER	TRIDEN	Chart	•	
2. NAME OF OPERATOR		THIP WIN		8 FARM OR LEASE NAME Navajo Tract 87	<i>.</i> #1
Humble Oil	& Refining Company	11/1/2	, ,	9. WELL NO.	<u> </u>
3. ADDRESS OF OPERA		gian		1	
P. O. Box	120, Denver, Colorado 8020 (Report location clearly and in accordance	with any State requirer	nents.*	10. FIELD AND POOL, OR W	ILDCAT
See also space 17	below.)	with any brace requires		Wildcat	:
At surface	O' FNL & 880' FEL) of Sect	-1 an 28-36N-29	1_	11. SEC., T., R., M., OR BLE.	AND
SE NE (103	O. MIL & GOO. BET! OI pec	iton simpon-cy	•	SURVEY OR AREA	. at arm
	CONTRACTOR OF THE CONTRACTOR O			Sec. 23-36N-29E	G&SRM
14. PERMIT NO.	15. ELEVATIONS (Show	whether DF, RT, GR, etc.)	•	1	3. STATE
401 - Arizo	8960' GR &	8980' KB :	_ 	Apeche	Arizona
		in the control of N	O Papart or	Other Data	2
16.	Check Appropriate Box To Ir	Jaicais Maines of 14		OURNT REPORT OF:	
	NOTICE OF INTENTION TO:		- Susse		·
TEST WATER SH	DT-OFF PULL OR ALTER CASING	WATE	SHUT-OFF	REPAIRING WEI	.:
FRACTURE TREAT	nultiple_couplete	<u>[</u>	CRE TREATMENT	ALTERING CASI	· -
SHOOT OR ACIDIT	ZE ABANDON*		ring on acidizing Casing &	ABANDONMENT	XX
REPAIR WELL	CHÂNGE PLANS	(Oth	ANT Denost sorel	to of multiple completion on	Well
(Other)			Completion or Recom	Disting rebutt und von total	· <u>/</u> _
17. DESCRIBE PROPOS proposed work	ED OR COMPLETED OPERATIONS (Clearly state	urface locations and me	sured and true vert	ical depths for all markers a	nd zones perti-
nent to this wo	W hole to MD 06-5505	at ut OD 9.5	J-55 casing	at 5505 and ce	ented with
DLITTER 0-2/	-50 Poznix cement with	gel and 25# Gi	lsonite per	Back. Job comple	te 5-29-67.
Jey sauce yo	t by temperature survey 41	001.			₹
	32-45' - See attached core	analysis.	in		
H	68-80' - See attached core	enslysis.	質点 [編] 。		Ţ.
52	80-88' - Shale, red a gree	n, dolumitic,	sandy.		•
CORE #3: 52	88-5344 - Shale as above			a Of Dalamita a	Nachtly sand
CORE #4: 53	144-51' - 4' Shale as above	ed 51. Dojowie	€ Goppres er	10 5. norantee's p.	TIENOTA DOMA
DST #1: 55	505-5225 Misrus pecke 505-5195 Misrus pecke	grailed.			£.
DST #2: 55	50525231 Shut in Photo	r raited.	in witness	abut in 5 hours	20 minutes.
DST #3: 55	at stabilized rate of 605	учорен ≥ иоига	ACT TOTO 15	OTA TEP 242# TF	P 87#. FSIP
Flowed gas	et stabilized rate of 600 1	MOTTO LOP ET	enelveis of	pan by Biresu Of	Mines at
		E 'AN INT E .		TADYE ATTY OF THE	
Shiproca sac	ron Bureau of Mines Oper	eticas villiano	v 162 mutpend	ed for an indeter	minate time
		ATION STREET	TILL DE BANK		
		TTAT BOATHELL	IN CAP COULT AN		
Michael Mu	en operations resume and a law vill be submitted. One	copy of Elect	ric logs fur	nished previously	and one
- Tog or wer	convercioned.	th 22.8/	රිස්දීම් මේ		$-\sqrt{g}$
RUGI CIONEL	copy enclosed.	40 4000	CLES E		Y.
	7		£.,		Ĝ
					1 3.
ale to C H.	that the foregoing is true and correct	Exploration	on E	6-2	-67
SIGNED C	mariel Alaits,	TITLE BRIEN Ope:	RETORS SUPE.	DATE	-
	or Federal or State office use)	7. 6			- 2
17.8			i to		- -
APPROVED E	and the same and t	Tigle 1	<u> </u>	DATE	3 <i>6</i>
CONDITIONS	OF APPROVAL, OF ANY:		E HART	TATES TA BASIN	r A Y
	rizona 611 & Gas Conservat	ion Comission	EULIN	FIDENTI	AL
cc: 2 - Al	r. Henry F. Pohlmann, See		Side 19	11 71 + 1.	mar Setas
M	inerals Supr., Havajo Trib	e	Trel	L 1401 CON	man de la constante de la cons
					<i>F</i>

401

()

63

Instructions

| Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instructions | Instr TOP a partial to promote the property of the partial to ment.

Description

Be Sand. DETAIL TOLLIG Excloration Distr Operations Akeh Molas Mola Molas Molas Molas Molas Molas Molas Molas Molas Molas Molas Mo Creek Personal Street Organ Rock Rico Bernosa Coconino Tentry Chinle

4

D'S O STATE O'S G ALCEIVED

O

UNITED STATES DEPARTMENT OF THE INTERIOR

REPORT OF OPERATIONS

State	Aris	one.		Co	unty Ar	ache	Fiel	ld Wild	cat	~~~
Th	e folla	wing	is a	correc	t report of	operati	ons and pro	duction (ir	reluding d	rilling and producing
wells) j	or the	mon .	inoj B	Roy	 120		, rouss, con			& Refining Company
Agents	aaar	ess	Denv	er. Co	lorado 802	XO1	Sigi	ned 5	IGINAL JOH	N R. CROUCH
Phone .				1251			Age	ent's title .	Dist. Ad	ministrative Supr.
SEC. AND 14 or 14	Twr.	RANGE	WELL No.	DATA PAODUCED		GRAVITT	Cu. Ft. of Gas (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (II none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoling content of gas)
e olava	ACT 8	7 -	ARIZ	OMA P	ermit #401					
ec. 23 E WE	36¥	298	1	0	o		0			Operations suspende 5-30-67. See Sundr Hotice dated 6-2-67
						- 101	DEN	TAL		
÷					CO	MI				11181/12
									15/16	RECEIVED TO STATE OF
									W. Control	ON TOTAL
cc: 12	AZ	izon	a Oi	1 & G	Conserva	tion	Commission Supr., No.	ca to Trit		

Note.—There were

runs or sales of gasoline during the month. (Write "no" where applicable.)

Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329 (January 1950)

U.S. GOVERNMENT PRINTING OFFICE: 1964-0-729-784

TO SERVICES !

NDRY NOTICES AN	ND REPORTS ON WELL
Rumble Oil & Refining Company,	2000 Classen Center, North Building, Oklahoma
2. OH. WELL S GAS WELL OTHER NAME OF THE OTHER ST. #1	City, Oklahoma 73106 - Attn: Mr. H. L. (Specify) Spiller
3. Well Name Navajo 11ac of #1	ection 23-36N-29E G&SRM
Location	29E County Apache, Arizona.
Sec	14-20-0603-8811
4. Federal, State or Indian Lease Number, or lessor's name if fee lease_	11-20 0003 002
	TATAL
5. Field or Pocl Name Wildcat	AEN LIA
5. Field or Poci Name Wildcat 6. Check Appropriate Box to Indicate Nature of Notice o	r Data
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
	WATER CHIT.OFF
TEST WATER SHUT-OFF PULL OR ALTER CASING DIRECTIONAL DRILL	EDACTIDE TERATMENT
FRACTURE TREAT DIRECTIONAL DRILL SHOOT OR ACIDIZE PERFORATE CASING	SHOOTING OR ACIDIZING ABANDONMENT
REPAIR WELL CHANGE PLANS	Change of Acreage Dedication XX
(OTHER)	(OINEA)
	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
as follows: 160 acres - NE 1 Sec. 23-36N-2	reage dedication of the above well to read
CONFID 8. I hereby certify that the foregoing is true and correct.	ENTIAL STATE ON B. COMM. S. CO
U I Smiller	Tille Expl. Drilling Supt. Date May 23, 1967
Signed H. L. Spiller	
By: Marvin D. Smith	STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Sundry Notices and Reports On Wells

File Two Copies

Form No. 25

401

12

5-23-67

Telcon w/Roger Frazier, Humble

Re: 1-87

Drill pipe will be out of hole tonight at about 11:00 p.m. Plant to be logging by midnight.

J١

-

E CONTRACTOR |

russet<mark>iakkite</mark>

		11 de 87-1
	5-10-67	2000 Garsen Center
-, -		De lity
	6	Wrote letter asking simb notify me in time so that I might be present when log.
·		present when log.
: :		
	200	
, · · · · · · · · · · · · · · · · · · ·	200	
e -		
, januar	١4	

CUNDRY NOTICES AND REPORTS ON WEAT

	\ ,
1. Name of Operator Humble Oil & Refining Company, P.	O. Box 120, Denver, Colorado 80201
	elfy)
3. Well Name_Navajo Tract 87 #1	TANTIAL
	NEIDEL
23 36N Bra 29E	County Apache , Arizona.
Sec.	20-0603-8811
4. Federal, State of Indian Bease Number, of Teach State of Indian Bease Number, of Teach State of Indian Bease Number, of Teach State of Indian Bease Number, of Teach State of Indian Bease Number, of Teach State of Indian Bease Number, of Teach State of Indian Bease Number, of Teach State of Indian Bease Number, of Teach State of Indian Bease Number, of Teach State of Indian Bease Number, of Teach State of Indian Bease Number, of Teach State of Indian Bease Number, of Teach State of Indian Bease Number, of Teach State of Indian Bease Number (Indian Bease Number).	
Wildcat	
5. Field or Pool Name	
[]	MONTHLY PROGRESS
TEST WATER SHOT-OFF	CTUDE TOPATMENT REPAIRING WELL
	OTING OR ACIDIZING ABANDONMENT
REPAIR WELL CHANGE PLANS	HER) Spudding & Surface Casing X
(OTHER)	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
	A 1.4.12 and sive portions dates including estimated date of
	RECEIVED RECEIVED RECEIVED TO STATE O & O. COMM.
8. I hereby certify that the foregoing is true and correct.	A. E GAS WELL OTHER GROWN (Specity) NAVAJO Tract 87 #1 SE NE (1830' FRL & 880' FEL) Section 23 Two 36N Rgc 29E COUNTY Apache Arizona. State or Indian Lease Number. or lessor's name if fee lease 14-20-0603-8811 Pool Name. Wildoat SUBSEQUENT REPORT OF: NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: NONTHLY PROGRESS REPARTING WELL ALTERING CASING SHOOTING OR ACIDIZING ALTERING WELL ALTERING WELL (OTHER) Spudding & Surface Casing NOTHER SHOTING OR ACIDIZING ALTERING CASING SHOOTING OR ACIDIZING ALTERING WELL (NOTE: Report results of multiple completion on Well Completion or Well. (OTHER) Spudding & Surface Casing NOTHER PROPOSED OR CONFLETED OPERATIONS (Clearly state all pertinent details, and avey pertinent date, including estimated date of estimated on the work.) (INOTE: Report results of multiple completion on well Completion or Well to directionally direct details, and avey pertinent date, including estimated date of estimated on the work.) (INOTE: Report results of multiple completion on well Completion or Well to directionally direct details, and avey pertinent date, including estimated date of estimated on the work.) (INOTE: Report results of multiple completion on well Completion or Well Completion or Well Completion or Well Completion or Well Completion or Well Completion or Well Completion or Well Completion or Well is directionally direct give subsurface locations and measured and true vertical depths for all markets and estimated to be subsurface locations and measured and true vertical depths for all markets and estimated to be subsurface.) (INOTE: Report results of multiple completion on Well Completion or Well Completion or Well Completion or Well Completion or Well Completion or Well Completion or Well Completion or Well Completion or Well Completion or Well Completion or Well Completion or Well Completion or Well Completion or Well Completion or Well Completion or Well Completion or Well Completion or Well Completion or Well Completio
Signed H. L. Spiller	Expl. Drilling Supt. Date 5-4-5/
By: Marvin W. Smith	OIL & GAS CONSERVATION COMMISSION Sundry Notices and Reports On Wells
401	File Two Copies Form No. 25
Permit No. 401	<u></u>

CONFIDENTIAL

۱۲

ถ

REPORT OF ANALYSIS 085. PRES. 63.9 CAL. PRES. 63.7 F.S.- 10971 "N.S.N-31683",H 5.47 COUNTY-APACHE STATE- ARIZONA DINEH BI KEYAH WELL NAME-NAVAJO TRACT 87 NO. 1 FIELD-OWNER-HUMBLE OIL & REFINING CO. LOCATION-SEC. 23, T36N, R29E DATE SAMPLED-DATE COMPLETED-DRILLING BERT HILAND SAMPLED BY-NAME OF PRODUCING FORMATION-DEPTH IN FEET-THICKNESS IN FEET-SHUT IN WELLHEAD PRES - PSIG-OPEN FLOW, MCF/D-CHECK OF DATA-..WITHOUT CORRECTION,AS: CORRECTED ABOVE. THE WELL DATA ARE ACCURATE. REMARKS-CONFIDENTIAL ANALYSIS-NORMAL PENTANE DXYGEN METHANE ISOPENTANE ETHANE ARGON CYCLOPENTANE HYDROGEN **PROPANE** TRACE 2 HEXANES PLUS H2S 0-0 NORMAL BUTANE NITROGEN C02 78.8 10.6 ISOBUTANE 0.0 SPECIFIC GRAV HELIUM TOTAL 99.9 CALCULATED GROSS BTU/CU FT. DRY AT 60 DEG F AND 30 IN. MERCURY-47. PERXISSION FOR KELEASE-PERVISSION IS HEREBY GRANTED FOR THE BUREAU OF MINES TO RELEASE THE ABOVE

DATA, TOGETHER WITH SINILAR DATA RELEASED BY OTHER OPERATORS AS PUBLIC INFORMATION AND AS PARTS OF A SERIES OF PAPERS ON ANALYSES OF GASES FROM

COMPANY

VARIOUS FIELDS, STATES, OR REGIONS,

3

C

CONTRIDENTIAL.

CORE LABORATORIES. INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

Page No. 1 401

CORE ANALYSIS RESULTS

Zi.	ົງ _©	•				•	
Comp	uny Humble Cil &	Refining Com	pany Forma	tion.	Undesignated	FileRP=3-	-2212
Well.	Navajo #1_Ti	ract 87	Core T	Гуре	D/C	Date Report5/25/	/67
Field	Undesignated	1		ig Fluid		AnalystsGraha	an
	v_Apache			•	Sec. 23-T36N-R29		
	A series that the series of th						
	o polamitt BOL	45m+0817 € . ANH F	Inthologi	cal Abbrevia		R. BRD FRACTURET FRAC	\$110+7LY.\$L/
BANG SI Barley Limboli	sh GHEST-GN	CONGLOWERATE-CONG FORFILM ERQUS-FORF	- SHALY-SHY	COVERT-CAL MIDIOM-MAD	G441N-GFN G4AV		VERY - V/ WITH-W/
SAMPLE	реетн	PERMEABILITY		DUAL SATURATION ER CENT PORE		SAMPLE DESCRIPTION	*** · · · *** · · · · · · · · · · · · ·
NUMBER	FEET	MILLIDARCYS	PER CENT OIL	TOTAL		AND REMARKS	
	· · · · · · · · · · · · · · · · · · ·	A	1	\$4.	7 • •	ţ	
		ийх. 90°					
1	5232 -33.5	0.14 0.12				D, WELL CMTED, SLI,	/SHLY
2	5233.5-35.5	7.26 5.55			SS:GRY, FN, CLEAN		
. 3	5235.5-37	4.07 3.03			SS:LT GRY, FN-CS	E, V/SLI/CALC, SH S	STRNGRS
Ŀ	5237 -39	1.07 0.74			SS:GRY, FN-CSE, W	ELL CMTED	
5	5239 -40	2.18 2.18			SS: GRY, CSE, WELL	CMTED, PIN PT PO	R,SHLY
6	5210 -11	3.41 3.26		5 14.5	SS:LT GRY, FN-CS	E, WELL CMTED, PIN	PT POR, SHLY
7	5241 -42	0.42 0.26		3 19.3	SS:GRY, FN-MED, V	/DENS, VERT FRAC	
8	5242 -43.5	0.15 0.13	L.1 4.	6 46.4	SS: ORY, MED-CSE,	PIN PT POR, VERT	FRAC
9	5243.5-45	0.20 0.11	i 3.9 j. 4.	9 76.4	SS:GRY, FK-CSE,	ELL CMTED	
	למנפאי נה ל	0.58 0.00					
. 10	5268 ~-69.5	2.57 2.26				•	
11	5269.5-71	21.2 13.7	8.4 2.			IN PT POR, VERT F	RAC .
12	5271 -72.5	7.0 6.8	7.2 1.				
13	5272.5-74	6.56 3.37				IN PT POR, SHLY, V	ERT FRAC
<u>Մ։</u> 15	5274 -75.5	3.64 3.22		•	SS:GRY, FN-MED,		•
	5275.5-77	36.3 33.9	8.3 1.		SS:DK GRY, MED-1		•
16	5277 - 78,5	55.2 42.7		- :	SS:GRY, CSE-V/CS		
17	5278.5-80	0.05 0.05	5 2.2 L.	5 62.7	SH:BUFF, DENS, SI	I/CALC, FEW CSE S	D GRNS
	·						

CONFIDENTIAL



1 SERVICE #5-B 4.01

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, first report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations or productive and only as a other mineral well or sand in connection with which such report is used or relied upon.

(?)

CONFIDENT,AL

Norm.—There were

Form 9-329A (December 1938)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

LEASE NO. 14-20-0503-8811

Wildcat

LESSEE'S MONTHLY REPORT OF OPERATIONS

Agent'sPhone		QI)00 (klah: 18-2	ma Či	n Center I ty, Oklaho	orth.		Sidnod	To Ma	Chrysey	* Refining Company - By: When Job So illing Supt.
SEC. AND H OF H	: 	RANGE	WELL No.	Data Pacoucar	BARRELS OF OIL	GRAVITY	Co Te or	GAS GA	LONS OF SOLINE OVERED	BARRELS OF WATER (If none, so state)	REMARKS (II drilling, depth; if shut down, cause; date and result of test for gestline evators of gas)
vajo tr	CT (7									
ia. 23	36#	29E	1								Spudded 4-28-67. Drilling at 985'.
										11/18/	19/100
										CONS	1/30 P
										E 777	112
ia: 2 -	ari	EC126	OII	è (ins	Conservat	ion Co	males1	20			

.... runs or sales of oil; ...

Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

16-26231-6

APPLICA	TIL FOR PERMI	T TO DRILL OF	R RE-È₁-, Г	ER	
APPLICATION TO DR	ու 🕱		RE-ENTER C	OLD MEIT []	
Humble Oil & Refin	ing Company	- ·	-rKIT!	IAL	
NAME OF COMPANY OR OPERATOR	ing company	CONF	DELAI		
		COLAI		2 00003	İ
P. O. Box 120,	Denve	r,	Colo	rado 80201 State	
Address	·	<u> </u>			
This information will be	furnished by leti	er when contra	ct is aw	arded.	
Orilling Contractor					1
		• · · · · · · · · · · · · · · · · · · ·	<u> </u>		
Address					 [
	DESCRIPTION OF	WELL AND LEASE			
Federal, State or Indian Lease Number, or is	fee lease, name of lessor	Well number		Elevation (ground)	
	603-8811)	11		8960' Ungrade	<u>d</u>
Nearest distance from proposed location to property or lease line:		Distance from propo completed or applied	sed location to I—for well on	nearest drilling, the same lease:	j
	880 feet		-		feet
Number of acres in lease:	- 7,5 1561	Number of wells on	lease, includin	ng this well.	
		completed in or dril	_	ervoir.	
640		<u> </u>	1		
If lease, purchased with one or more wells drilled, from whom purchased:	Name .		Address		
Well location (give footage from section line	es) Section—to	wnshiprange or block	and survey	Dedication (Comply wit	
SE NE - 1830' FNL & 880']		3-36N-29E - G	& SRM	80 acres (E/2	NE/4)
Field and reservoir (if wildcat, so state)		County		•	
Dineh bi Keyah Distance, in miles, and direction from neares	et teum er nest effice	Apache			
Appr. 40 - 45 miles South		N. M.			94
Proposed depth:	Rotary or cable tools			date work will start	
4,500'	Rotary			on as possible.	
Bond Status Blanket Bond	Organization Report			ee of \$25.00 Chook No. //92	5
Amount	On file X		Attached	Check No. 492	7
Remarks:	CONFIDENT	JAI			
	INDEM!	Merc			
	CONFIDE				
	Co				
			······································		
CERTIFICATE: I, the undersigned, under	the penalty of perjury, st	ate that I am the Di	st. Opera	tions Supt.	of the
i					
Humble Oil & Refining Con report was prepared under my supervision	(company), and direction and that the fa	and that I am authorize cts stated therein are tr	d by said com- ue, correct no	pany to make this report; a i complete to the best of my	nd that this knowledge.
		· /	يسقار	$\mathcal{K}_{\mathcal{L}_{\mathbf{a}}}$	
		Signatu	J pye	W Trazin	
					я
		Date	April 21	1967	4487
·		APRIC		(B) us	7
ATTA			 	# \ \\	音量
Permit Number: 4(1.1.		-	STATE	OF ARIZON	節に確
Approva! Date: 4-25-6	·	OII &		RVATION COMMISSION	NO U
Approved By: Jehn / 3	annistor	-	-	to Drill or Re-enter	28 8
I MUDIOVEG BY.		,		1/\	
			File	Two Copies	300
Notice: Before sending in this form be s all information requested. Much ence will thus be avoided.	ure that you have given unnecessary correspond-	:	File	Two Copies	200

(Complete Reverse Side)

1. Operator shall outline the dedicated acreage for both oil and gas wells on the plat.

- 2. A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
- 3. All distances shown on the plat must be from the outer boundaries of the Section.
- 4. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES X NO____
- 5. If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES______NO______ If answer is "yes," Type of Consolidation______
- 6. If the answer to question four is "no," list all the owners and their respective interests below:

Grade & Type

H-40 J-55

Weight

32.30# 20#

Size of Casing

9-5/8***** 7"

_					CERTIFICATION
		^			I hereby certify that the information above is true and complete to the best of my knowledge and belief. Name Roger S. Frazier
_		grana august			Position Dist. Operations Supt. Company Rumble Oil & Refining Co
	jn - mašta	11 (1 (46 /4 <u>)</u> 1 (2)	23		April 21, 1967
		SEE SURVEYO	S PLAT ATTACHE	D	I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and
_		 	XC		correct to the best of my knowledge and belief.
	g samble same to	1. (- 10- 1.1		· [Date Surveyed
		 			Registered Professional Engineer and/or Land Surveyor See Surveyors Plat Attac
Ļ		<u> </u>			Certificate No.

Bottom

900° 4,500°

Top

0

Sacks Cement

all pays.

Circ. to surface. Sufficient to cover

Cementing Depths

900' 4,500' റ



PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION, STATE OF ARIZONA,

To:		HUMBLE OIL	REFINING CO	PANY	
			(OPERATOR)		
		to drii	I a well to be kno	wn as	
		HUHBLE #1 NA	AWAJO 87		
			(WELL NAME)		
located	18	30' FHL and	880'FEL (SE	/4NE/4)	
Section 2:	3 Towns	hip 36N R	ange 29B	Apache	County, Arizona.
The	e/2 ne	1/4		·	of said
	wnship and R	ange is dedicate	d to this well.		
Said v	vell is to be d	rilled substantial	lly as outlined in the	ne attached Applicat and regulations of t	ion and must be drilled he State of Arizona.
	256	e day of	April		9× 67
issuec	ints	E_uay Oi			
			OIL AN	D GAS CONSERVA	TION COMMISSION
	. 		Ву	chn / Jan	mister_
				EXECUTIVE	SECRETARY
				State	of Arizona
PERMIT		401	4	J1915	OI WILFAILE

Oil & Gas Conservation Commission

Permit to Drill

FORM NO. 27

API 02-001-20025

9493

RECEIPT NO.

Company HUMBLE OIL & REFINING COMPANY Well Name & No. Navajo Tract 87 #1 Location 1830 feet from the North line and 880 feet from the East line. Sec. 23 , T. 36 N., R. 29 E., G. & S. R. M., County Apache Arizona Ground Elevation __8960_ Set . 23 Scale, 1 inch = 1,000 feet Surveyed April 15 This is to certify that the above plat was prepared from field notes of actual surveys or under my supervision and that the same are true and correct to the but of the knowledge and belief. Èrnest V. Echohawk ECHOHAWK Registered Land Surveyor Arizona Registration No. 2311

X-Chrono X-LAmber

June 12, 1969

Mr. J. Roy Dorrough Humble Oil & Refining Company P. O. Box 130 Denver, Colorado 80201

Re: Humble #2 Navajo 138
T35N, R30E, G & SRM
Sec. 6: SE/4 SE/4
Permit #400 \(\)
Apache County

Humble #1 Navajo 146 T36N, R30E, G & SRM Sec. 15: 3E/4 SW/4 Apache County Permit #452 X Numble #1 Navajo 87 T36M, R29E, G & SEM Sec. 23: SE/4 NE/4 Apache County Permit 401

Humble #1 Navajo 151 T35N, R30E, G & SRN Sec. 35: 8E/4 NE/4 Apache County Permit #454 X

Dear Mr. Dorrough:

Authorization from this Commission is hereby granted to continue the captioned wells in a temporary abandoned status. This temporary abandoned status will expire June 16, 1970. We will require our form #25 (or U.S.G.S. Sundry Notice Report) to be submitted monthly as you have done in the past.

Yours truly,

James A. Lambert Administrative Assistant

JALıjî

...

T emanana

.

(53K)

HUMBLE ÖIL & REFINING COMPANY

DENVER, COLORADO 80201

PRODUCTION DEPARTMENT
DENVER DISTRICT
J. R. DORROUGH

June 5, 1969

POST OFFICE BOX 120 TELEPHONE 534-1251

Oil and Gas Conservation Commission State of Arizona Room 202, 1624 West Adams Phoenix, Arizona 85007

Attn: Mr. James A. Lambert

Gentlemen:

av

Re: Humble #2 Navajo 138 T35N, R30E, G & SRM Sec. 6: SE/4 SE/4 Apache County Permit 400

> Humble #1 Navajo 146 T36N, R30E, G & SRM Sec. 15: SE/4 SW/4 Apache County Permit 452

Humble #1 Navajo 87 T36N, R29E, G & SRM Sec. 23: SE/4 NE/4 Apache County Permit 401

Humble #1 Navajo 151 T35N, R30E, G & SRM Sec. 35: SE/4 NE/4 Apache County Permit 454

In answer to your letter of June 2, 1969, relating to the above, this is to advise that the working interest owners in the immediate vicinity of the above listed wells are currently actively attempting to form a unit which might eventually lead to the economic exploitation and production of helium bearing gas wells in the area.

Each of the above listed wells could become involved as a producer of helium bearing gas. We therefore request extension of the temporary abandoned status of these wells.

Very truly yours,

JRD:mg

401

MERICA'S LEADING ENERGY COMPANY

U

X-Chrono X-Lambert

June 2, 1969

Mr. J. Roy Dorrough Humble Oil & Refining Company P. O. Box 120 Denver, Colorado 80201

Re: Humble #2 Navajo 138 T35M, R30E, G & SRM Sec. 6: SE/4 SE/4 Apache County Permit 400

> Humble #1 Mavajo 146 T85N, R30E, G & SRM Sec. 15: 3E/4 SW/4 Apache County Permit 452 Y

Humble #1 Navajo 87 T36N, R29E, G & SRM Sec. 25: SE/4 NE/4 Apache County Permit 401

Humble #1 Mavajo 151 T35M, RBOE, G & SRM Sec. 35: SE/4 ME/4 Apache Coupty Permit 454

Dear Mr. Dorrough:

For the past year these wells have been carried in the temporary abandoned status. Please advise us what plans you have for each of the wells in the ensuing year and make new request for extending temporary abandon status should you wish that these wells remain in that status.

Yours truly,

James A. Lambert Administrative Assistant

JAL:j?

401

O

CERTIFY:

HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

DENVER DISTRICT

March 24, 1969

POST OFFICE BOX 120



Mr. John Bannister Arizona Oil & Gas Conservation Commission 1624 West Adams - Suite 202 Phoenix, Arizona 85007

Dear Mr. Bannister:

Attached please find Bureau of Mines "Report of Analysis" of gas samples on all wells drilled by Humble Oil & Refining Company in the Dineh bi Keyah Area, Apache County, Arizona.

 Well Name & No.
 No. of Reports

 Navajo Tract 87 #1-40\
 1

 Navajo Tract 88 #1 - 42 |
 3

 Navajo Tract 88 #2-43 |
 4

 Navajo Tract 88 #3-443
 1

 Navajo Tract 140 #1-393
 3

 Navajo Tract 151 #1 - 454
 3

These reports should complete all records on the well in this area. Analysis were not made on wells not listed above.

Very truly yours,

J. Roy Forrough

Attach.

401

AMERICA'S LEADING ENERGY COMPANY

O

June 21, 1968

Mr. J. Roy Dorrough
Humble Oil & Refining Company
P. O. Box 120
Denver, Colorado 80201

Dear Mr. Dorrough:

Your letter of May 31, 1968 requests that certain gas wells be exempt from Capacity Testing in compliance with Rule 401. Our records do not reflect that any of these have been completed gas wells. Therefore, we will need the information indicated on the attached sheet.

We do have on file the application that the Humble 488 be considered as a salt water injection well.

As soon as we receive clarification on the above points, consideration will be given to your request.

Very truly yours,

John Bannister
Executive Secretary
ir

CAPAGE

· ·

Provided the same of the same	#1-146 Permit 452	Dermit 447	# 1-88 Permit 421	#0 87 Permit 401	257 - 7 A	# 1- 120 Fernit 393	We!	
	due	due	dui	due	die	dui	completion Report	
	due	due					Samples	
								Humble
		Applic					and the same of th	0/2
		to convert to	2.5					Refining
		. Salt water						
ηα		, 12/00						

O

HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

DENVER DISTRICT

May 31, 1968

POST OFFICE BOX 120

0il & Gas Conservation Commission State of Arizona 1624 West Adams-Suite 202 Phoenix, Arizona 85007

Attn: Mr. John Bannister

Dear Sir:

In compliance with Rule 401 and Directive D-2-67, we hereby request exemption from Capacity Tests of Gas Wells on the following shut-in gas wells during the month of June, 1968.

#1 Navajo Tract 87
SE NE Section 23-36N-29E, Apache County

#1 Navajo Tract 88 SE SE Section 25-36N-29E, Apache County

#4 Navajo Tract 88 SE NW Section 25-36N-29E, Apache County

#2 Navajo Tract 138

#00 SE SE Section 6-35N-30E, Apache County

#1 Navajo Tract 140 SE NE Section 8-35N-30E

#1 Navajo Tract 146 SE SW Section 15-35N-30E, Apache County

Your approval of these exemptions will be appreciated.

Very truly yours,

J. Roy Dorrough

401

OFFICE OF

JOHN BANNISTER EXECUTIVE SECRETARY

J. R. SCURLOCK PLINOLEUM GEOLOGIST

Oil and Gas Conservation Commission

STATE OF ARIZONA

1824 WEST ADAMS

Phoenix, Arizona 85007

PHONE: 271-5161

LYNN LOCKHART CHAIRMAN LUCIEN B. OWENS VICE CHAIRMAN

JACK WILLIAMS

HIRAM S. CORBETT MEMBER GEORGE T. SILER MEMBER

KENNETH G. BENTSON MEMBER

July 10, 1967

Humble Oil & Refining Company P.O. Box 120 Denver, Colorado 80201

Attention: Mr. Roger Frazier

Re: Humble #1 Navajo 140 (Permit 393) SE NE 8-35N-30E, Apache County, Arizona

> Humble #2 Navajo 138 well (Permit 400) SE SE 6-35N-30E, Apache County, Arizona

Humble #1 Navajo 87 well (Permit 401) SE NE 23-36N-29E, Apache County, Arizona

Gentlemen:

Attached please find Directive 1-78 adopted during the Commission's meeting of June 21, 1967.

The effect of this directive will be to remove all wells in temporarily abandoned status prior to June 21, 1967 from the status of confidential as of December 31, 1967. All obligations owed to this Commissioner concerning the filing of logs, reports, samples, will be due within the schedules as set forth in the Rules and Regulations from July 1, 1967. Of course an application to plug and plugging report will not be needed at this time. In lieu of our Form 4, Well Completion Report, it will be necessary that you file a status report covering the complete history of the well to the date of its temporary abandonment.

Should you have any questions concerning this directive or this letter, please advise at your earliest convenience.

Very truly yours,

John Bannister Executive Secretary

cc: Mr. H.L. Spiller, Oklahoma City

O

اهل

June 20, 1967

Humble 0:1 & Refining Company P.O. Box 120 Denver, Colorado 80201

Attention: Mr. J. Roy Dorrough

Re: Humble #1 Havajo 140 well (Permit 393) SE NE 8-35N-30E, Apache County, Arisona

> Humble #2 Navajo 138 well (Permit 400) SE SE 6-35H-30E, Apache County, Arisons

Humble #1 Navajo 87 well (Permit 401) 8E NE 23-368-29E, Apache County, Arisona

Gentlemen:

By your letters of June 15, 1967 you requested permission from this Commission to temporarily abandon the captioned wells pending the development of a helium market and additional drilling.

This letter constitutes permission from this Commission to temporarily abandon captioned wells for the reasons stated in your requests.

This Coumission should of course be notified when you plan to again commence operations on these wells.

Very truly yours,

John Bannister Executive Secretary

161

) mparem



HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

DENVER DISTRICT

June 15, 1967

POST OFFICE BOX 120

Oil and Gas Conservation Commission, State of Arizona Suite 202, 1624 West Adams Phoenix, Arizona 85007

Attn: Mr. John Bannister

Gentlemen:

In accordance with Rule 202.B of the Arizona Oil and Gas Conservation Commission Rules and Regulations, we request permission for temporary abandonment of the following well:

Navajo Tract 87 #1 - Permit #401 SE NE Section 23-36N-29E, Apache County, Arizona

Operations on this well have been suspended and the well is temporarily abandoned pending development of a helium market for the field, which may take some time, and additional development in other wells in the helium bearing formations in the area.

Pending development of a helium market and additional drilling, we request approval to keep this well in the temporarily abandoned status

for an indefinite period.

Very truly yours,

J. ROY DORROUGH

401

STATE ON GILLS

AMERICA'S LEADING ENERGY COMPANY

June 9, 1967

Mr. H.L. Spiller Humble Oil & Refining Company 2000 Classen Center-North Oklahoma City, Oklahoma 73106

Re: Humble #1 Navajo 87 SE NE 23-36N-29E Apache County, Arizona Permit 401

Dear Mr. Spiller:

We have received notice that operations on captioned well, which you indicated is a helium well, will be temporarily suspended.

Please be advised that should Humble decide to keep this as a shut-in helium well it will be necessary that 640 acres be dedicated to this well (rule 105.B) and that an application for an unorthodox location (rule 105.D) be made prior to production.

I would further remind you that should work be suspended on this well in excess of 60 days, Rule 202.B would become applicable. Of course if this well is completed and then shut-in this latter step will not be necessary.

Should you have any questions, would you please advise.

Very truly yours,

John Bannister Executive Secretary mr

rts.

IJ

HUMBLE OIL & REFINING COMPANY

OKLAHOMA CITY, OKLAHOMA 73106

EXPLORATION DEPARTMENT

CENTRAL DIVISION

April 27, 1967

2000 CLASSEN CENTER-NORTH JACKSON 8-2411

Navajo Tract 87 #1 SE NE Section 23-36N-29E Apache County, Arizona

Oil & Gas Conservation Commission State of Arizona 1624 West Adams, Suite 202 Phoenix, Arizona 85007

Attention: Mr. John Bannister

Gentlemen:

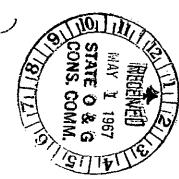
By his letter of April 26, 1967, Mr. J. Roy Dorrough requested you to keep all information on the above well confidential. We recognize that your agency is entitled to receive information regarding this well and we want to assure you that we will cooperate in every possible way to make this information available.

Based on past experience, we anticipate that there will be a number of visitors to this location. In order to insure that no unauthorized persons are permitted at the drillsite and to insure that information on this well is kept confidential, we request that you advise any of your personnel who may contemplate visiting this well that before being admitted to the location they will be required to show positive identification and to acknowledge that they are aware that all information concerning the well is to be held in strict confidence. We will also want to assure ourselves that any visitor from your agency is familiar with the regulations pertaining to dissemination of any information

Should this request cause any problems with your agency or if any additional information is required, we will be pleased to discuss the matter at your convenience.

Very truly yours,

H. L. Špiller



401

ACM:sr

ESSENSE |

FREEDMAN

ENCO

HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

P. O. Box 120

POST OFFICE BOX 120

TITIBILIS TO THE PARTY OF THE P

DENVER DISTRICT

April 25, 1967

CONFIDENTIAL

Oil & Gas Conservation Commission Mr. John Bannister 1624 West Adams - Suite 202 Phoenix, Arizona 85007

Dear Mr. Bannister:

At the time the "Application for Permit to Drill" our Navajo Tract 87 #1 was submitted a Drilling Contractor had not been selected. This is to inform you that the contract as been awarded to the following:

Loffland Brothers Company P. O. Box 4567 Tulsa, Oklahoma 74114

If any further information is desired at any time, please do not hesitate to call on us.

Roger S. Frazier Dist. Operations Supt.

CONFIDENTIAL

401

ENCO

HUMBLE OIL & REFINING COMPANY

DENVER, COLORADO 80201

April 25, 1967

POST OFFICE BOX 120



Oil & Gas Conservation Commission, State of Arizona 1624 West Adams - Suite 202 Phoenix, Arizona 85007

Attn: Mr. John Bannister

Gentlemen:

By this letter we request the Oil and Gas Conservation Commission, State of Arizona, to keep all information on the following well confidential:

Navajo Tract 87 No. 1 SE NE Section 23-36N-29E Apache County, Arizona

All reports on this well will be clearly marked "CONFIDENTIAL." Your cooperation will be greatly appreciated.

If any additional information is needed, please notify us and it will be furnished.

Very truly yours,

Roy Dorrough

cc: United States Geological Survey
Navajo Tribe - Mr. Henry F. Pohlmann

401

4-27-67

Telcon, Mr. Roger Frazier, Denver

Re: Humble #1 Navajo 140

Spudded 4:00 a.m. 4-27-67

Re: Humble #1 Navajo 87

Road permitting, will spud sometime today

Drilling under supervision of Mr. Speller, Okla city office